

## NMS6KTH

### DC~43.5GHz, SP3T~SP6T, Terminated

- |                       |                   |
|-----------------------|-------------------|
| Features:             | Applications:     |
| * High Power          | * Wireless        |
| * Long Operation Life | * Transmitter     |
|                       | * Laboratory Test |
|                       | * Radar           |

### Electrical

Frequency: DC~43.5GHz  
 Impedance: 50Ω

Model	Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
NMS6KTH-40	DC-26.5	0.5	80	1.5
	26.5-40	0.7	70	1.6
NMS6KTH-43.5	DC~40	0.4	70	1.3
	40-43.5	1.0	55	1.7

Current (mA)	Voltage*1 (V)	12	24	28
	Normally Open	300	200	180
Latching	320	200	180	

[1] The voltage can be selected according to user requirements.

### Mechanical

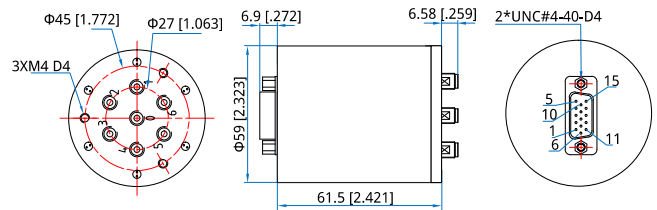
- Size\*2:  $\Phi 59 \times 61.5 \text{mm}$   
 $\Phi 2.323 \times 2.421 \text{in}$
- Switching Sequence: Break before Make  
 Switching Time: 15mS max.  
 Operation Life: 2M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS  
 RF Connectors: 2.92mm Female  
 Power Supply & Control Interface Connectors: D-Sub 15/26  
 Mounting: 3- $\Phi 4 \text{mm}$  through-hole

[2] Exclude connectors.

### Environmental

- Temperature: -25~+65°C  
 Extended Temperature: -45~+85°C

### Outline Drawings



Unit: mm [in]  
 Tolerance:  $\pm 0.5 \text{mm}$  [ $\pm 0.02 \text{in}$ ]

### Additional Options

- TTL: T  
 Indicators: I  
 Extended Temperature: Z  
 Positive Common  
 Waterproof Sealing Type

### How To Order

- NMSVKTH-F-WXYZ**  
 V: 3~6 (SP3T~SP6T)  
 F: Frequency in GHz  
 W: Actuator Type. Latching: 1, Normally Open: 3.  
 X: Voltage. +12V: E, +24V: K, +28V: M.  
 Y: Power Interface. D-Sub: 1.  
 Z: Additional Options.

### Examples:

To order a SP4T terminated switch, High performance, DC-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS4KTH-40-3E1TI.

Customization is available upon request.

### Pin Numbering

#### Normally Open

Pin	Function	Pin	Function
1~6	V1~V6	14	Indicator (Com)
7	COM	15	NC
8~13	Indicator (1~6)		

#### Normally Open & TTL

Pin	Function	Pin	Function
1~6	A1~A6	9~14	Indicator (1~6)
7	VDC	15	Indicator (Com)
8	COM		

#### Latching

Pin	Function	Pin	Function
1~6	V1~V6	15	Indicator (Com)
7	V (RESET)	16	VDC
8	COM	17~26	NC
9~14	Indicator (1~6)		

Latching switch should power on pin 7 to reset before excitation.

#### Latching & TTL

Pin	Function	Pin	Function
1~6	A1~A6	10~15	Indicator (1~6)
7	RESET	16	Indicator (Com)
8	VDC	17~26	NC
9	COM		

### Driving Schematic Diagram

